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The role of cytokines in **cartilage matrix degeneration** in osteoarthritis.

SR Goldring, MB Goldring - Clin Orthop Relat Res, 2004 - ncbi.nlm.nih.gov

... of cytokines in **cartilage matrix degeneration** in osteoarthritis ... mediating the increased **matrix degradation** that characterizes the osteoarthritic **cartilage** lesion ...

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[HTML] •Aggrecanases and **cartilage matrix degradation**

H Nagase, M Kashiwagi - ARTHRITIS RESEARCH AND THERAPY, 2003 - arthritis-research.com

... the secondary ossification centre in the **cartilaginous** epiphysis of ... radicals as effectors of **cartilage** destruction. ... Okada Y: Proteinase and **matrix degradation**. ...

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VM Baragi, RP Renkiewicz, H Jordan, J Boradio, JW ... - Journal of Clinical Investigation, 1995 - pubmedcentral.nih.gov

... Osteoarthritis: a review of the cell biology involved and evidence ... and recombinant human interleukin-1 beta stimulate **cartilage matrix degradation** and inhibit ...

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... in the human knee: a dynamic process of **cartilage matrix degradation**, synthesis and reorganization.

AR Poole, G Fitzkalla, M Ionescu, A Reiner, E ... - Agents Actions Suppl, 1993 - ncbi.nlm.nih.gov

... which involve a number of **matrix** molecules. ... and aggrecan content occur deeper in the **cartilage**. ... of collagen fibrils and increased **degradation** and synthesis of ...

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[PDF] •Articular **cartilage** and changes in arthritis: **matrix degradation**

JS Mort, CJ Billington - Arthritis Res, 2001 - biomedcentral.com

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John S Mort and Caron J Billington Joint Diseases ...

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Factors related to **degradation** of articular cartilage in osteoarthritis: a review

S Tanaka, C Hamanishi, H Kikuchi, K Fukuda - Seminars in Arthritis and Rheumatism, 1996 - Elsevier

... that destabilize the normal coupling of **degradation** and synthesis of articular **cartilage** chondrocytes and extracellular **matrix** and subchondral ...

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**Matrix metalloproteinase degradation** of extracellular **matrix**: biological consequences

SD Shapiro - Current Opinion in Cell Biology, 1998 - Elsevier

... MMP-9 is required to initiate primary angiogenesis in the **cartilage** growth plate ...

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**Enhanced cleavage of type II collagen by collagenases in osteoarthritic articular cartilage.**

RC Billinghurst, L Dahlberg, M Ionescu, A Reiner, ... - *Journal of Clinical Investigation*, 1997 - [pubmedcentral.nih.gov](#)

... with interleukin 1 while the rate of intracellular **degradation** remains unchanged. ...

in normal fetal and adult osteoarthritic **cartilage** with monoclonal ... **Matrix Biol** ...

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**Application of chitosan-based polysaccharide biomaterials in cartilage tissue engineering: a review**

JK Francis Suh, HWT Mathew - *Biomaterials*, 2000 - [Elsevier](#)

... result, there was evidence of **degeneration**, fissuring in ... molecules are also present

in **cartilage matrix** as the ... and proteoglycan release [61] and **degradation** [62 ...

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... of interleukin-1 and tumor necrosis factor in **matrix degradation** of human osteoarthritic **cartilage**

M Kobayashi, GR Squires, A Mousa, M Tanzer, DJ ... - *Arthritis Rheum*, 2005 - [doi.wiley.com](#)

... that spares collage- nase 1 (**matrix metalloproteinase** 1 ... and extends into the **cartilage**

with progressive **degeneration**. ... Cellular biology of **cartilage degradation**. ...

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